



# TORQ Analysis of Truck Drivers, Heavy and Tractor-Trailer to Industrial Truck and Tractor Operators

## INPUT SECTION:

Transfer	Title	O*NET	Filters		
From Title:	Truck Drivers, Heavy and Tractor-Trailer	53-3032.00	Abilities:	Importance Level: 50	Weight: 1
To Title:	Industrial Truck and Tractor Operators	53-7051.00	Skills:	Importance Level: 69	Weight: 1
Labor Market Area:	Maine Statewide		Knowledge:	Importance Level: 69	Weight: 1

## OUTPUT SECTION:

Grand TORQ:

83

Ability TORQ

Skills TORQ

Knowledge TORQ

Level

78

Level

88

Level

85

### Gaps To Narrow if Possible

### Upgrade These Skills

### Knowledge to Add

Ability	Level	Gap	Impt	Skill	Level	Gap	Impt	Knowledge	Level	Gap	Impt
Stamina	50	15	68	Active Listening	52	6	74	No Knowledge Upgrades Required!			
Multilimb Coordination	57	11	78	Reading Comprehension	58	1	73				
Selective Attention	46	12	59								
Control Precision	55	7	75								
Finger Dexterity	39	9	56								
Arm-Hand Steadiness	41	6	81								
Flexibility of Closure	42	7	53								
Speech Recognition	37	7	53								
Oral Comprehension	53	6	59								
Problem Sensitivity	42	6	56								
Speech Clarity	41	6	53								
Depth Perception	55	4	78								
Trunk Strength	51	3	72								
Inductive Reasoning	37	4	53								
Gross Body Coordination	37	4	53								
Dynamic Strength	48	3	65								










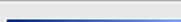

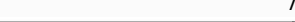



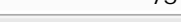
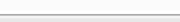















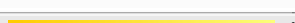









































Speed of Limb Movement	39	3	53
Perceptual Speed	41	3	50
Manual Dexterity	44	2	68
Extent Flexibility	59	2	68
Deductive Reasoning	41	1	53

LEVEL and IMPT (IMPORTANCE) refer to the Target Industrial Truck and Tractor Operators. GAP refers to level difference between Truck Drivers, Heavy and Tractor-Trailer and Industrial Truck and Tractor Operators.

## ASK ANALYSIS

### Ability Level Comparison - Abilities with importance scores over 50

Description	Truck Drivers, Heavy and Tractor-Trailer	Industrial Truck and Tractor Operators	Importance
Arm-Hand Steadiness	35 	41 	81 
Multilimb Coordination	46 	57 	78 
Depth Perception	51 	55 	78 
Control Precision	48 	55 	75 
Static Strength	75 	71 	75 
Trunk Strength	48 	51 	72 
Manual Dexterity	42 	44 	68 
Stamina	35 	50 	68 
Extent Flexibility	57 	59 	68 
Dynamic Strength	45 	48 	65 
Far Vision	53 	46 	65 
Oral Comprehension	47 	53 	59 
Selective Attention	34 	46 	59 
Response Orientation	65 	53 	59 
Rate Control	51 	39 	59 
Near Vision	45 	41 	59 
Oral Expression	48 	46 	56 
Problem Sensitivity	36 	42 	56 
Spatial Orientation	57 	42 	56 
Finger Dexterity	30 	39 	56 
Reaction Time	70 	57 	56 
Peripheral Vision	42 	39 	56 
Written Comprehension	44 	42 	53 
Deductive Reasoning	40 	41 	53 



Inductive Reasoning	33	37	53
Flexibility of Closure	35	42	53
Speed of Limb Movement	36	39	53
Gross Body Coordination	33	37	53
Speech Recognition	30	37	53
Speech Clarity	35	41	53
Perceptual Speed	38	41	50
Visualization	48	46	50
Time Sharing	50	39	50
Night Vision	42	32	50

## Skill Level Comparison - Abilities with importance scores over 69

Description	Truck Drivers, Heavy and Tractor-Trailer	Industrial Truck and Tractor Operators	Importance
Mathematics	48	47	76
Active Listening	46	52	74
Reading Comprehension	57	58	73
Equipment Maintenance	63	56	71

## Knowledge Level Comparison - Knowledge with importance scores over 69

Description	Truck Drivers, Heavy and Tractor-Trailer	Industrial Truck and Tractor Operators	Importance
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## Experience &amp; Education Comparison

Related Work Experience Comparison			Required Education Level Comparison		
Description	Truck Drivers, Heavy and Tractor-Trailer	Industrial Truck and Tractor Operators	Description	Truck Drivers, Heavy and Tractor-Trailer	Industrial Truck and Tractor Operators
10+ years	0%	0%	Doctoral	0%	0%
8-10 years	0%	0%	Professional Degree	0%	0%
6-8 years	0%	0%	Post-Masters Cert	0%	0%
4-6 years	5%	0%	Master's Degree	0%	0%
2-4 years	1%	22%	Post-Bachelor Cert	0%	0%
1-2 years	71%	9%	Bachelors	0%	0%
6-12 months	10%	24%	AA or Equiv	0%	0%
3-6 months	0%	15%	Some College	3%	0%
1-3 months	0%	13%	Post-Secondary Certificate	21%	29%
0-1 month	1%	6%	High School Diploma or GED	53%	59%
None	9%	8%	No HSD or GED	22%	11%

Truck Drivers, Heavy and Tractor-Trailer

Industrial Truck and Tractor Operators

## Most Common Educational/Training Requirement:

Moderate-term on-the-job training

Short-term on-the-job training

## Job Zone Comparison



## 2 - Job Zone Two: Some Preparation Needed

Some previous work-related skill, knowledge, or experience may be helpful in these occupations, but usually is not needed. For example, a teller might benefit from experience working directly with the public, but an inexperienced person could still learn to be a teller with little difficulty.

These occupations usually require a high school diploma and may require some vocational training or job-related course work. In some cases, an associate's or bachelor's degree could be needed.

Employees in these occupations need anywhere from a few months to one year of working with experienced employees.

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## Tasks

### Truck Drivers, Heavy and Tractor-Trailer

#### Core Tasks

##### Generalized Work Activities:

- Operating Vehicles, Mechanized Devices, or Equipment - Running, maneuvering, navigating, or driving vehicles or mechanized equipment, such as forklifts, passenger vehicles, aircraft, or water craft.
- Inspecting Equipment, Structures, or Material - Inspecting equipment, structures, or materials to identify the cause of errors or other problems or defects.
- Getting Information - Observing, receiving, and otherwise obtaining information from all relevant sources.
- Identifying Objects, Actions, and Events - Identifying information by categorizing, estimating, recognizing differences or similarities, and detecting changes in circumstances or events.
- Performing General Physical Activities - Performing physical activities that require considerable use of your arms and legs and moving your whole body, such as climbing, lifting, balancing, walking, stooping, and handling of materials.

#### Specific Tasks

##### Occupation Specific Tasks:

- Check all load-related documentation to ensure that it is complete and accurate.
- Check conditions of trailers after contents have been unloaded to ensure that there has been no damage.
- Check vehicles before driving them to ensure that mechanical, safety, and emergency equipment is in good working order.
- Climb ladders to inspect loads after loading is complete, in order to ensure that cargo is secure.
- Collaborate with other drivers as part of a driving team on some trips.
- Collect delivery instructions from

### Industrial Truck and Tractor Operators

#### Core Tasks

##### Generalized Work Activities:

- Operating Vehicles, Mechanized Devices, or Equipment - Running, maneuvering, navigating, or driving vehicles or mechanized equipment, such as forklifts, passenger vehicles, aircraft, or water craft.
- Handling and Moving Objects - Using hands and arms in handling, installing, positioning, and moving materials, and manipulating things.
- Getting Information - Observing, receiving, and otherwise obtaining information from all relevant sources.
- Performing General Physical Activities - Performing physical activities that require considerable use of your arms and legs and moving your whole body, such as climbing, lifting, balancing, walking, stooping, and handling of materials.
- Identifying Objects, Actions, and Events - Identifying information by categorizing, estimating, recognizing differences or similarities, and detecting changes in circumstances or events.

#### Specific Tasks

##### Occupation Specific Tasks:

- Hook tow trucks to trailer hitches and fasten attachments, such as graders, plows, rollers, and winch cables to tractors, using hitchpins.
- Manually load or unload materials onto or off pallets, skids, platforms, cars, or lifting devices.
- Move controls to drive gasoline- or electric-powered trucks, cars, or tractors and transport materials between loading, processing, and storage areas.
- Move levers and controls that operate lifting devices, such as forklifts, lift beams and swivel-hooks, hoists, and elevating platforms, to load, unload, transport, and stack material.



correct delivery instructions from appropriate sources, verifying instructions and routes.

- Couple and uncouple trailers by changing trailer jack positions, connecting or disconnecting air and electrical lines, and manipulating fifth-wheel locks.
- Crank trailer landing gear up and down to safely secure vehicles.
- Drive trucks to weigh stations before and after loading and along routes, in order to document weights and to comply with state regulations.
- Drive trucks with capacities greater than 3 tons, including tractor-trailer combinations, in order to transport and deliver products, livestock, or other materials.
- Follow appropriate safety procedures when transporting dangerous goods.
- Follow special procedures related to specific cargo, such as checking refrigeration systems when carrying frozen foods, or providing food and water when carrying livestock.
- Give directions to laborers who are packing goods and moving them onto trailers.
- Install and remove special equipment such as tire chains, grader blades, plow blades, and sanders.
- Inventory and inspect goods to be moved, in order to determine quantities and conditions.
- Load and unload trucks, or help others with loading and unloading, operating any special loading-related equipment on vehicles and using other equipment as necessary.
- Maintain logs of working hours and of vehicle service and repair status, following applicable state and federal regulations.
- Maneuver trucks into loading or unloading positions, following signals from loading crew as needed; check that vehicle position is correct and any special loading equipment is properly positioned.
- Obtain receipts or signatures when loads are delivered, and collect payment for services when required.
- Operate equipment such as truck cab computers, CB radios, and telephones to exchange necessary information with bases, supervisors, or other drivers.
- Operate trucks equipped with snowplows and sander attachments to maintain roads in winter weather.
- Perform basic vehicle maintenance tasks such as adding oil, fuel, and radiator fluid, or performing minor repairs.
- Perform emergency roadside repairs such as changing tires and installing light bulbs, tire chains, and spark plugs.

- Operate or tend automatic stacking, loading, packaging, or cutting machines.
- Perform routine maintenance on vehicles and auxiliary equipment, such as cleaning, lubricating, recharging batteries, fueling, or replacing liquefied-gas tank.
- Position lifting devices under, over, or around loaded pallets, skids, and boxes, and secure material or products for transport to designated areas.
- Signal workers to discharge, dump, or level materials.
- Turn valves and open chutes to dump, spray, or release materials from dump cars or storage bins into hoppers.
- Weigh materials or products, and record weight and other production data on tags or labels.

#### Detailed Tasks

##### Detailed Work Activities:

- fasten attachments or accessories to tractor
- inspect material moving equipment
- load, unload, or stack containers, materials, or products
- maintain or repair cargo or passenger vehicle
- maintain production or work records
- measure, weigh, or count products or materials
- move or fit heavy objects
- operate cargo handling gear
- operate forklift
- operate material moving, loading, or unloading equipment
- operate packaging or banding machine or equipment
- operate tractor with accessories or attachments
- perform safety inspections in manufacturing or industrial setting
- signal directions or warnings to coworkers
- use hand or power tools
- use vehicle repair tools or safety equipment
- use weighing or measuring devices in transportation

#### Technology - Examples

##### Inventory management software

- Argos Software ABECAS Insight WMS
- ATMS StockTrack PLUS
- BarControl Enterprise Manager iBEM



- Place empty carts and pallets in trailers so they will be available to facilitate placement and movement of goods.
- Read and interpret maps in order to determine vehicle routes.
- Read bills of lading to determine assignment details.
- Remove any debris from trailers after loading is completed.
- Report vehicle defects, accidents, traffic violations, or damage to the vehicles.
- Secure cargo for transport, using ropes, blocks, chain, binders, and/or covers.
- Wrap goods using pads, packing paper, and containers, and secure loads to trailer walls, using straps.

#### Detailed Tasks

#### Detailed Work Activities:

- collect payment
- direct and coordinate activities of workers or staff
- drive tractor-trailer truck
- drive truck with capacity greater than 3 tons
- examine vehicle to detect malfunctions, damage, or maintenance needed
- follow traffic laws
- load, unload, or stack containers, materials, or products
- maintain driver log according to I.C.C. regulations
- maintain or repair cargo or passenger vehicle
- maintain records, reports, or files
- move or fit heavy objects
- operate cleaning equipment
- perform safety inspections in transportation setting
- prepare reports
- prepare safety reports
- read maps
- service vehicle with water, fuel, or oil
- transport passengers or cargo
- use established traffic or transportation procedures
- use geographic positioning system (GPS)
- use local or regional geographical knowledge to transportation
- use truck-mounted hydraulic lifts or other accessories
- use two-way radio or mobile phone
- use vehicle repair tools or safety equipment
- use weighing or measuring devices in transportation

- IntelliTrack Warehouse Management System WMS

- Lilly Software Associates VISUAL DCMS

- Midland Information Systems inventory management software

- Motek Priya

- RedPrairie DLx Warehouse

- SAP warehouse management software

Materials requirements planning logistics and supply chain software

- Aldata G.O.L.D. software

- SSA Global Supply Chain Management

#### Tools - Examples

- Belt conveyors

- Bulk liquid trucks

- Container reach stackers

- Hustlers

- Industrial crane trucks

- Bridgeplates

- Dockboards

- Dollies

- Flatbed trailers

- Booms

- Cantilever trucks

- Fork-grapples

- Motorized hand trucks

- Overhead hoists

- Jacks

- Combination vacuum lifts

- High-lift order picker trucks

- Tank trailers

- Pallet trucks

- Personal computers

- Personnel and burden carriers



- verify cargo against shipping papers
- work as a team member
- wrap products

#### Technology - Examples

##### Data base user interface and query software

- Easy Trucker software
- Fog Line Software Truckn2004
- Truckers Helper software

##### Inventory management software

- Computerized inventory tracking software

##### Route navigation software

- ALK Technologies PC\*Miler
- MarcoSoft Quo Vadis

#### Tools - Examples

- Compressors
- Blocks and tackle
- Flatbed trucks
- Pup trailers
- Trucks greater than 26000 pounds
- Dump trucks
- Lowboy trailers
- Forklifts
- Global positioning system GPS devices
- Handtrucks
- Cargo hoists
- Handlifts
- Satellite linkup systems
- Personal digital assistants PDA
- Refuse collection trucks
- Plow attachments
- Boom trucks
- On-board computers
- 4-ranger tower trucks
- Sliding fifth wheels

- Snow plows

- Swivel hooks

- Telescopic forklifts

- On-board computers for sending/receiving instructions

- Wheel chocks

- Banding equipment



- Two way radios
- Wheeled loaders
- Winches

### Labor Market Comparison

Description	Truck Drivers, Heavy and Tractor-Trailer	Industrial Truck and Tractor Operators	Difference
Median Wage	\$ 31,140	\$ 26,160	\$( 4,980)
10th Percentile Wage	\$ 21,630	\$ 20,690	\$( 940)
25th Percentile Wage	N/A	N/A	N/A
75th Percentile Wage	\$ 39,070	\$ 32,090	\$( 6,980)
90th Percentile Wage	\$ 48,350	\$ 38,670	\$( 9,680)
Mean Wage	\$ 33,190	\$ 27,920	\$( 5,270)
Total Employment - 2007	9,940	3,210	-6,730
Employment Base - 2006	11,827	3,240	-8,587
Projected Employment - 2016	12,184	3,180	-9,004
Projected Job Growth - 2006-2016	3.0 %	-1.8 %	-4.9 %
Projected Annual Openings - 2006-2016	246	82	-164

### National Job Posting Trends

Trend for Truck Drivers, Heavy and Tractor-Trailer

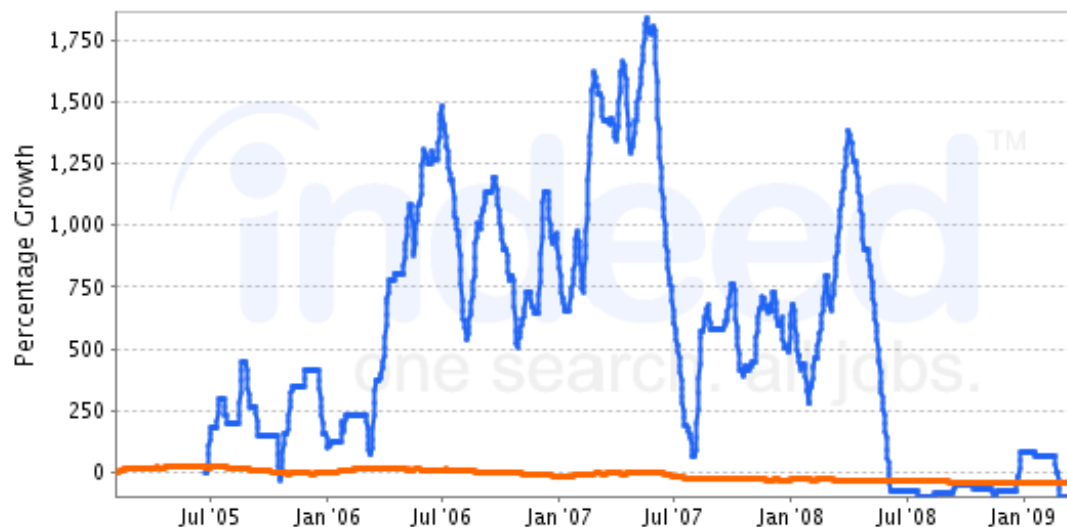
Trend for  
Industrial  
Truck and  
Tractor  
Operators





### Job Trends from Indeed.com

— Truck Driver — Industrial Truck and Tractor Operator



Data from [Indeed](http://Indeed.com)

### Recommended Programs

Truck, Bus and Other Commercial Vehicle Operator

Truck and Bus Driver/Commercial Vehicle Operation. A program that prepares individuals to apply technical knowledge and skills to drive trucks and buses, delivery vehicles, for-hire vehicles and other commercial vehicles. Includes instruction in operating gas, diesel, or electrically-powered vehicles; loading and unloading cargo or passengers; reporting delays or accidents on the road; verifying load against shipping papers; arranging transportation for personnel; and keeping records of receipts and fares.

No schools available for the program

Ground Transportation, Other

Ground Transportation, Other. Any instructional program in vehicle and equipment operation not listed above.

No schools available for the program

### Maine Statewide Promotion Opportunities for Truck Drivers, Heavy and Tractor-Trailer

O*NET Code	Title	Grand TORQ	Job Zone	Employment	Median Wage	Difference	Growth	Annual Job Openings
53-3032.00	Truck Drivers, Heavy and Tractor-Trailer	100	2	9,940	\$31,140.00	\$0.00	3%	246
53-4011.00	Locomotive Engineers	76	4	100	\$59,580.00	\$28,440.00	12%	4
43-5041.00	Meter Readers, Utilities	74	1	90	\$31,240.00	\$100.00	-11%	3
53-7032.00	Excavating and Loading Machine and Dragline Operators	73	2	330	\$32,160.00	\$1,020.00	6%	8
47-4061.00	Rail-Track Laying and Maintenance Equipment Operators	73	1	120	\$36,960.00	\$5,820.00	8%	4



37-3013.00	Tree Trimmers and Pruners	73	2	0	\$38,080.00	\$6,940.00	0%	0
43-5052.00	Postal Service Mail Carriers	73	1	1,730	\$43,190.00	\$12,050.00	-3%	50
53-7021.00	Crane and Tower Operators	72	3	240	\$41,940.00	\$10,800.00	-2%	4
47-5021.00	Earth Drillers, Except Oil and Gas	71	3	140	\$37,470.00	\$6,330.00	2%	4
43-5053.00	Postal Service Mail Sorters, Processors, and Processing Machine Operators	70	2	970	\$41,950.00	\$10,810.00	-12%	10
47-2073.00	Operating Engineers and Other Construction Equipment Operators	69	3	2,110	\$31,990.00	\$850.00	6%	53
53-1011.00	Aircraft Cargo Handling Supervisors	69		20	\$44,750.00	\$13,610.00	13%	0
51-4121.06	Welders, Cutters, and Welder Fitters	68	2	1,610	\$38,030.00	\$6,890.00	7%	49
47-2151.00	Pipelayers	67	2	60	\$33,170.00	\$2,030.00	8%	3
49-3031.00	Bus and Truck Mechanics and Diesel Engine Specialists	67	3	1,180	\$34,210.00	\$3,070.00	6%	34

### Top Industries for Industrial Truck and Tractor Operators

Industry	NAICS	% in Industry	Employment	Projected Employment	% Change
Warehousing and storage	493100	12.45%	79,310	95,338	20.21%
Building material and supplies dealers	444100	8.14%	51,838	59,620	15.01%
Employment services	561300	6.01%	38,285	43,610	13.91%
Grocery and related product wholesalers	424400	4.08%	25,980	25,568	-1.59%
General freight trucking	484100	3.33%	21,218	21,599	1.80%
Motor vehicle parts manufacturing	336300	2.65%	16,903	12,111	-28.35%
Plastics product manufacturing	326100	2.44%	15,571	14,855	-4.60%
Converted paper product manufacturing	322200	2.19%	13,953	10,538	-24.47%
Lumber and other construction materials merchant wholesalers	423300	2.13%	13,579	14,037	3.37%
Fruit and vegetable preserving and specialty food manufacturing	311400	1.61%	10,255	8,368	-18.40%
Other wood product manufacturing	321900	1.53%	9,723	8,246	-15.19%



Sawmills and wood preservation	321100	1.35%	8,578	6,190	-27.84%
Couriers	492100	1.34%	8,561	8,280	-3.29%
Miscellaneous durable goods merchant wholesalers	423900	1.33%	8,504	8,786	3.32%
Beverage manufacturing	312100	1.21%	7,713	6,519	-15.48%

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Industry	NAICS	% in Industry	Employment	Projected Employment	% Change
General freight trucking	484100	31.71%	589,766	667,086	13.11%
Specialized freight trucking	484200	12.05%	224,032	252,341	12.64%
Self-employed workers, primary job	000601	8.51%	158,317	168,666	6.54%
Cement and concrete product manufacturing	327300	4.17%	77,512	84,135	8.55%
Grocery and related product wholesalers	424400	3.31%	61,617	67,377	9.35%
Other specialty trade contractors	238900	2.59%	48,100	53,161	10.52%
Employment services	561300	2.24%	41,689	52,763	26.56%
Support activities for road transportation	488400	1.73%	32,238	35,449	9.96%
Waste collection	562100	1.60%	29,808	37,582	26.08%
Warehousing and storage	493100	1.55%	28,770	38,426	33.57%
Couriers	492100	1.49%	27,785	29,858	7.46%
Highway, street, and bridge construction	237300	1.45%	26,980	29,048	7.66%
Lumber and other construction materials merchant wholesalers	423300	1.30%	24,253	27,857	14.86%
Building material and supplies dealers	444100	1.20%	22,263	28,450	27.79%
Local government, excluding education and hospitals	939300	1.17%	21,759	24,444	12.34%